

Product datasheet for MR203105

Stc1 (NM_009285) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Stc1 (NM_009285) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Stc1
 Synonyms: Stc
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR203105 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGCTCCAAAACCTCAGCAGTGATTCTGGCGCTGGTCATCAGTGCAGCTGCAGCGCACGAGGCGGAACAAA
 ATGATTCTGTGAGCCCCAGAAAATCCCGGGTGGCGGCTCAAATTCAGCTGAAGTGGTTCGCTGCCTCAA
 CAGTGCCTGCAGGTTGGCTGCGGGGCTTTTGCATGCCTGGAAAACCTCCACATGTGACACAGATGGGATG
 TACGACATTTGTAATCCTTCTTGTACAGTGTCTAAATTTGACACTCAGGAAAAGCATTGTCAAAG
 AGAGCTTAAAGTGCATCGCCAATGGGATCACCTCCAAGTATTCTTGCCATTTCGGAGGTGTTTCGACTTT
 CCAGAGGATGATCGCCGAGGTGCAGGAGGACTGCTACAGCAAGCTTAACGTTTGCAGCATCGCCAAGCGC
 AACCCGGAAGCCATCACTGAAGTCATACAGCTGCCAATCACTTCTCAAACAGATACTACAACAGACTTG
 TCCGAAGCCTTCTGGAATGTGATGAAGACACGGTCAGTACAATCAGAGACAGCCTGATGGAGAAGATCGG
 GCCCAACATGGCCAGCCTCTCCACATCCTGCAGACAGACCAGTGTGCCAGACACCCAGAGCTGAC
 TTCAATAGGAGGCGCACAAATGAGCCACAGAAGCTGAAAGTCTCCTCCTCAGGAACCTCCGAGGTGAGGGGG
 ACTCTCCCTCACACATCAAACGCACCTCCAAGAGAGTGCG

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203105 protein sequence
 Red=Cloning site Green=Tags(s)

MLQNSAVILALVISAAAHEAEQNDSVSPRKSRVAAQNSAEVVRCLNSALQVGGAFACLENSTCDTDGM
 YDICKSFLYSAAKFDTQGKAFVKESLKCIANGITSKVFLAIRRCSTFQRMIAEVQEDCYSKLNVCIAKR
 NPEAITEVIQLPNHFSNRYYNRLVRSLLCEDEDTVSTIRDSLMEKIGPNMASLFHILQTDHCAQTHPRAD
 FNRRRTNEPQKLKVLRLNLRGEGDSPSHIKRTSQESA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_009285

ORF Size: 744 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_009285.3](#), [NP_033311.3](#)

RefSeq Size: 3743 bp

RefSeq ORF: 744 bp

Locus ID: 20855

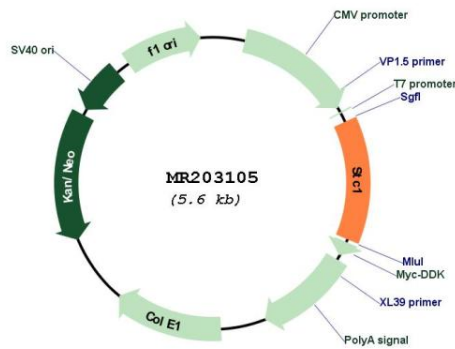
UniProt ID: [O55183](#)

Cytogenetics: 14 D2

MW: 27.5 kDa

Gene Summary: Stimulates renal phosphate reabsorption, and could therefore prevent hypercalcemia. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203105